Backup Sensors User's Information Manual

TSX

A Few Words About Safety

Your safety, and the safety of others, is very important. Operating the BACKUP SENSORS safely is an important responsibility.

To help you make informed decisions about safety, we have provided operating procedures and other information on labels in the vehicle owner's manual, and in this manual. This information alerts you to potential hazards that could hurt you or others.

Of course, it is not practical or possible to warn you about all the hazards associated with operating or maintaining your vehicle. You must use your own good judgement.

You will find this important safety information in a variety of forms, including:

- **Safety Labels** - on the vehicle.
- **Safety Messages** - preceded by safety alert symbol ⚠ and one of three signal words: **DANGER, WARNING, or CAUTION**. These signal words mean:

⚠ DANGER	You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.
⚠ WARNING	You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.
⚠ CAUTION	You CAN be HURT if you don't follow instructions.

As you read this manual, you will find information that is preceded by a **NOTICE** symbol. This information is intended to help you avoid damage to your vehicle, other property, or the environment.

- **Instructions** - how to use this vehicle correctly and safely.

This book contains important safety information - please read it carefully.

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Introduction

Thank you for purchasing this Acura accessory.

Please read this User's Information Manual carefully before using the backup sensors. Keep this manual in the glove box for future reference.

This User's Information Manual should be considered a permanent part of the vehicle. It should remain with the vehicle at all times and stay with the vehicle when sold.

This User's Information Manual contains important information about the safe operation of the backup sensors. We urge you to read this manual carefully, become familiar with the controls it describes, and follow its recommendations to help make your driving trouble-free and enjoyable.

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Before using the backup sensors, make sure you read and understand the operation and limitations of the system as discussed throughout this manual.

- The backup sensors are designed to provide an audible sound when they detect large stationary objects while the vehicle is moving in reverse at low speed. However, all obstacles may not always be sensed.
- Even with backup sensors, the driver should always look for obstacles near the vehicle to make sure the path is clear when driving in reverse and it is safe to park.

⚠ WARNING

Severe injury or death can occur to persons or objects not detected by the sensors.
Never rely solely on the backup sensors and always look behind you before backing up.

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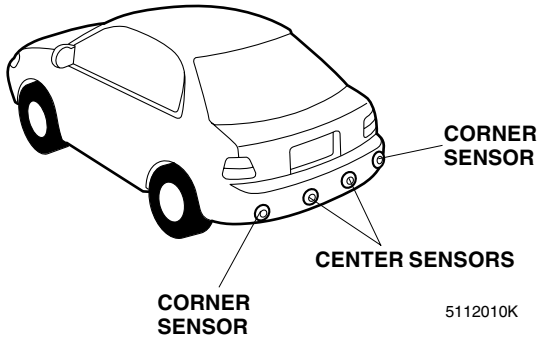
How the Backup Sensors Work

Backup Sensors

The sensors are ready for operation when the shift lever is moved into the reverse position.

The sensors operate by emitting ultrasonic waves. The sensors calculate the distance to an obstacle by measuring the time that ultrasonic waves take to reflect back from an obstacle.



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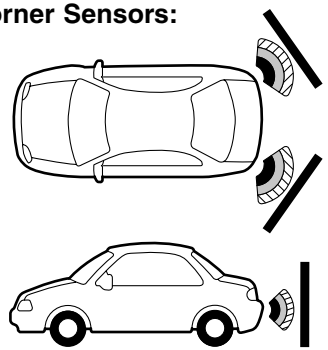
The sensor system is designed to alert you with a buzzer beep when the rear bumper is nearing an obstacle.

The buzzer beep has three sounds:

Buzzer	Corner Sensor Distance	Center Sensor Distance	Fill Pattern
Slow intermittent beeps	Within 2.0 ft (60 cm)	Within 4.9 ft (150 cm)	
Quick intermittent beeps	Within 1.3 ft (40 cm)	Within 3.3 ft (100 cm)	
Continuous beep	Within 0.8 ft (25 cm)	Within 1.6 ft (50 cm)	

Corner Sensors:



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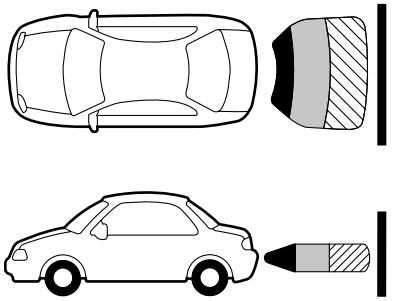
Center Sensors:



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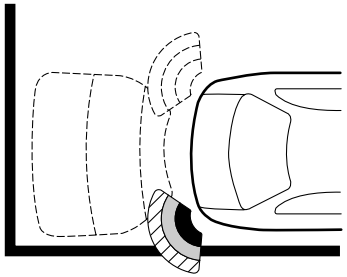
How the Backup Sensors Work

The sensors detect the nearest rear obstacle.



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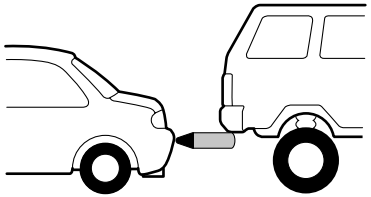
The corner sensor detects the side wall.

The sensors may not detect the bumpers of a tall vehicle.



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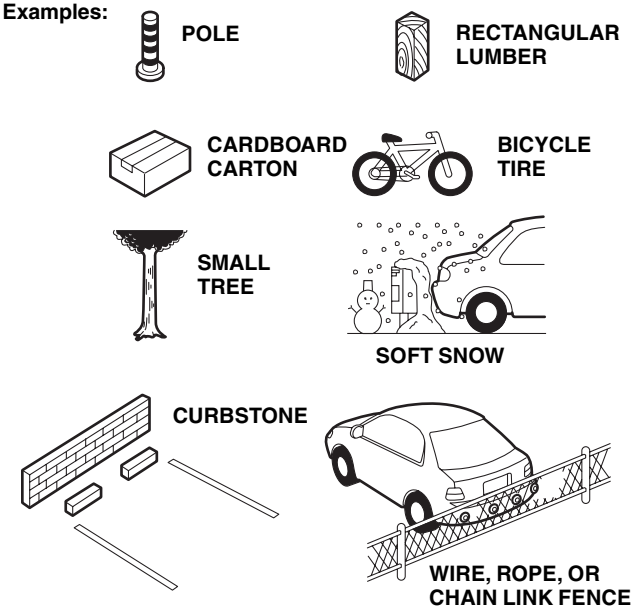
The system may not sense thin or low objects or sonic-absorptive materials such as snow, cotton, or sponge.

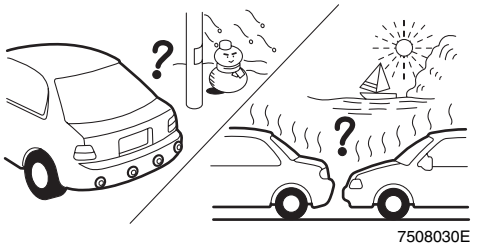
Examples:



- The sensors may not work near a garage door with electrical sensor.
- The system cannot sense objects directly under the bumper.

The system may not function properly under these conditions:

- After the vehicle has been sitting out in hot or cold weather.



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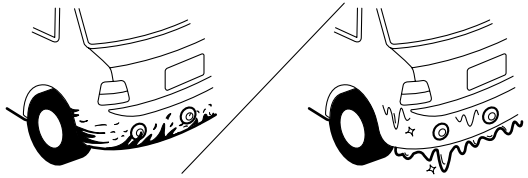
Limitations

- The sensors are covered with snow, ice, mud, etc.



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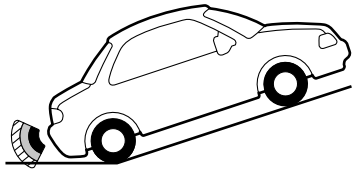
- When the vehicle is on a rough road, on grass, or climbing a hill.



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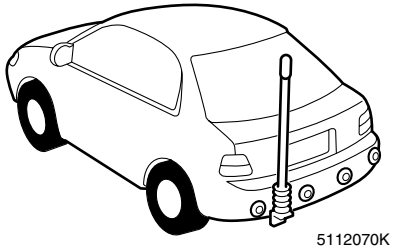
- When the system is affected by electrical equipment or devices generating an ultrasonic wave.



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- When operating the vehicle in bad weather.

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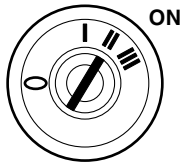
Before using the backup sensors, become familiar with the types of sounds in relation to the distances between the sensors and the obstacle by parking your vehicle in a garage or parking space. Also confirm the obstacle detecting range of each backup sensor.

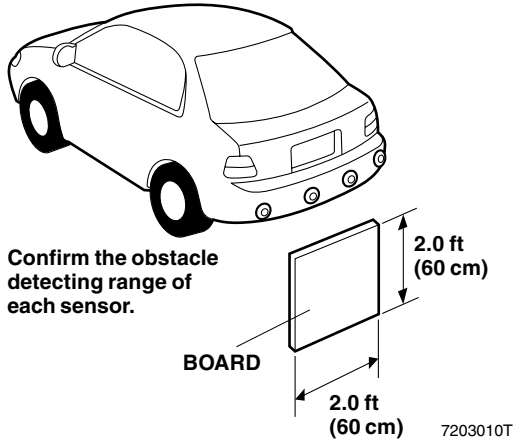
1. Apply the parking brake.
2. Turn the ignition switch to ON (II), but do not start the engine yet.



3. Move the shift lever to reverse.
   Confirm that the buzzer beeps for about one second when moving the shift lever to reverse.
   This initial beep indicates the system is working properly.
4. With one of the doors open, check that the buzzer beeps by slowly moving a board close to each sensor as described:

   Corner sensors:
   From 2.0 ft (60 cm)

   Center sensors:
   From 4.9 ft (150 cm)



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5. Check that the intermittent warning beeps become quicker as you move the board closer to the sensor.

   Corner sensors:
   About 1.3 ft (40 cm)

   Center sensors:
   About 3.3 ft (100 cm)

6. Check that the intermittent warning beeps change to a continuous beep as you move the board closer to the sensor. It may stop beeping if you move the board close too quickly.

   Corner sensors:
   About 0.8 ft (25 cm)

   Center sensors:
   About 1.6 ft (50 cm)

7. Turn the ignition switch to OFF (0).

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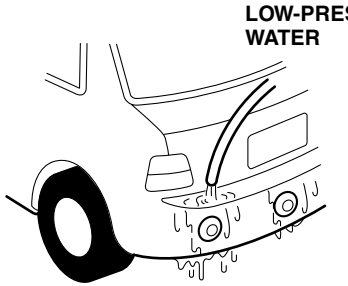
Wipe the sensors clean with a clean cloth. Flush with low-pressure water if the sensors are clogged with mud or dirt.



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Do not spray high-pressure water against the sensors.

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Troubleshooting

Perform the following checks if the buzzer does not beep when the vehicle is nearing an obstacle.

Symptom	Remedy
• **Clogged sensor with snow or mud**	• **Wipe with a clean cloth or flush with low-pressure water.**
• **Frozen sensor**	• **Melt with lukewarm water.**
• **Extended parking in cold weather or under blazing sun**	• **The backup sensors may not work if the outside air temperature is below -4°F (-20°C) or above 122°F (50°C).**

If either of the following problems persist, have the system checked by your Acura dealer.

- The buzzer beeps continuously when the shift lever is in the reverse position, and the sensors are not frozen or clogged with snow or mud.
- The buzzer does not beep when the shift lever is initially shifted into reverse (R).

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Troubleshooting With Beeps

When you turn the ignition switch to ON (II), and the backup sensor buzzer beeps more than once, there may be a problem with one of the sensors.

Corner Sensors
Two fast beeps: right sensor is faulty.

Three fast beeps: left sensor is faulty.

Four fast beeps: right and left sensors are faulty.

Center Sensors
Two slow beeps: right sensor is faulty.

Three slow beeps: left sensor is faulty.

Four slow beeps: right and left sensors are faulty.

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